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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|---------------|----------------------|------------------------|------------------|
| 09/886,175 | 06/20/2001 | David M. Teter | SD6785/S96438 5991 | |
| 75 | 90 11/29/2005 | | EXAM | INER |
| Timothy D. Stanley | | | CINTINS, IVARS C | |
| Sandia National Laboratories P.O. Box 5800 - MS-0161 | | | ART UNIT | PAPER NUMBER |
| | NM 87185-0161 | | 1724 | |
| | | | DATE MAILED: 11/29/200 | 5 |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | Application No. | Applicant(s) | | | | |
|---|---|-----------------------------|--|--|--|--|
| Office A -4' O | 09/886,175 | TETER ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Ivars C. Cintins | 1724 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 06 Se | eptember 2005. | | | | | |
| this action is FINAL . 2b) This action is non-final. | | | | | | |
| 3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under E | • | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1,3,4,9-12,14 and 15</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>1,3,4,9,11,12,14 and 15</u> is/are rejected. | | | | | | |
| 7)⊠ Claim(s) <u>10</u> is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| | | | | | | |
| Attachment(s) | | | | | | |
|) ⊠ Notice of References Cited (PTO-892) | 4) Interview Summary | (PTO-413) | | | | |
| P) DNotice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | te | | | | |
| I) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | 5) Notice of Informal Page 6) Other: | atent Application (PTO-152) | | | | |
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The two Terminal Disclaimers filed September 6, 2005 have been approved, and are deemed to overcome the obviousness-type double patenting rejections contained in the previous Office Action.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 4, 9, 11, 12, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Dawson et al. (U.S. Patent No. 4,134,831). The reference discloses removing arsenate (see Table I) from water with a sorbent material "comprising" a composition including a constituent (i.e. magnetite) having the recited formula (see col. 5, line 65 through col. 6, line 5), which sorbent material composition will bind the arsenate predominantly through the formation of surface complexes; and this is all that is required by claims 1, 3, 4, 9, 11, 12, 14 and 15.

Applicant's arguments filed September 6, 2005 have been noted and carefully considered, but no longer appear to be relevant in view of the new grounds of rejection. Applicant should note, however, that the sorbent material "composition" of Dawson et al. includes magnetite as a component of this composition, which magnetite has the formula now recited in the claims, and this is all that is required by the language of claims 1, 3, 4, 9, 11, 12, 14 and 15.

Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowed if rewritten in independent form to include all of the limitations of the base claim and any intervening claims because the references of record do not teach or fairly suggest utilizing CuFe₂O₄ in a water decontamination process of the type recited.

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Lorenc et al. (U.S. Patent No. 3,767,571) discloses adsorbing an anionic contaminant (see col. 2, lines 20 and 36) from water with magnetite (see col. 1, lines 40-41).

Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is 571-272-1155. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Duane Smith, can be reached at 571-272-1166.

The centralized facsimile number for the USPTO is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ivars C. Cintins
Primary Examiner
Art Unit 1724

I. Cintins November 26, 2005